Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force	Date: May 2021
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	4.019	12.882	13.081	0.000	13.081	-	-	-	-	-	-
676013: *Equipment Modernizaton*	-	4.019	12.882	13.081	0.000	13.081	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Tactical Air Control Party (TACP) are Air Force units manned by Special Warfare airmen (previously known as Battlefield Airmen) who advise Army Ground Commanders and plan, request and control air power in support of army ground maneuver operations. These capabilities are employed at all echelons of Army organizations by: Air Support Operation Center (ASOC) TACPs, Division TACPs, Brigade TACPs, Battalion TACPs, and dismounted (on foot) Joint Terminal Attack Controllers (JTAC) deployed with Army companies or scout teams on the front lines. TACPs coordinate, request, and control Strike aircraft, Joint fires, airlift support and intelligence, surveillance, and reconnaissance (ISR) support for Army combat operations, and they provide ground communications support for federal disaster response and Homeland Defense operations. TACPs deploy with their aligned Army units and operate in a variety of environments including fixed operations from ASOCs and Tactical Operations Centers (TOC), mobile operations in tactical vehicles, and dismounted operations with Army infantry patrols.

The purpose of the Tactical Air Control Party - Modernization (TACP-M) program is to provide TACPs voice, data and video communications, targeting and battlefield awareness/management capabilities across all domains. Improved targeting and data communications capabilities provide more accurate target coordinates, reduce Close Air Support (CAS) response times, and reduce the probability of fratricide or collateral damage using networked data communication.

The TACP-M program support includes addressing frequent TACP combat deployments that sometimes lead users to change equipment procurement priorities to support urgent operational needs and respond to evolving threat environments. The TACP-M program works with the Special Warfare (SW) program office to procure dismounted equipment and software. This teaming arrangement helps standardize battlefield airmen equipment,improve efficiency by consolidating acquisition efforts, and often reduces unit costs by increasing procurement quantities.

The TACP-M program provides and modernizes capabilities in the following four major areas: (1) ASOC/TOC systems (used in fixed and mobile operations centers), (2) Vehicle Mounted Systems (used in TACP tactical vehicles) and semi-mobile operations, (3) Dismounted Systems (used by JTACs during dismounted infantry operations), and (4) Close Air Support System (CASS) software.

ASOC provides execution management and integration with fires systems, utilizes Air Operations Center (AOC) (i.e., the Air Tasking Order (ATO)) inputs and archives data, provides a visual depiction and will assist in the management of the forward battlespace/area of contention in coordination with DOD, non-governmental, and international partners. It additionally provides TACP planning documents and data management/server capability for integrating ISR management and video feeds, managing Air Tasking real time, and receiving Battle Damage Assessment (BDA) inputs. The ASOC will provide Joint All Domain Command and Control (JADC2) capabilities that will be leader-centric, network enabled, and ready to operate in complex and degraded information environments; to include the ability to support/ execute air taskings should the AOC required assistance during periods of degraded operations

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force	Date: May 2021
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*

Dismounted and ASOC/TOC/Mounted (ATM) software meets the technical needs of implementing TACP C2 capabilities in operational environments. Software supports a wide variety of radio systems and other emerging systems that are expected to be employed by TACPs in the future. Future upgrades are necessary to maintain interoperability with strike aircraft, joint fire support systems, and emerging data networking waveforms. Software upgrades provide a modular architecture for digital communications, messaging, data handling, hardware management, and targeting, and battle space awareness capabilities. The key characteristic of the software will be the agile development of Open System, Modular architectures that will enable rapid integration with new end user devices (such as laser range finders, radios, Full Motion Video, targeting and laptops/hand held computing devices, tactical gateway's and rapid development, testing and fielding of new mission capability modules to meet immediate and future requirements. The ASOC will be aligned and integrated with the Advanced Battle Management System to ensure synergy of effort.

CASS software provides required advanced communication, advanced targeting capability, and significant interoperability improvements for mobile computing devices used by vehicle-mounted systems and stationary systems used in operations centers. TACP CASS software enables digital data communications with joint Command and Control (C2) nodes, other TACPs, strike aircraft, and Army C2 and Fire Support systems. It includes interfaces with TOC, ASOC, and JTAC radios, and targeting devices, interoperability across the Dismounted, vehicle-mounted systems, and ASOC/TOC mission sets. It also provides battlespace awareness capabilities needed to plan, request, coordinate, and control CAS in support of ground maneuver forces. The CASS software interfaces with all TACP-M components and provides interoperability with joint strike aircraft (F-35, A-10, F-16, F-15, F/A-18, AV-8B, B-52, etc.), Remotely Piloted Aircraft (RPA), artillery fire support systems, network-enabled weapons, and C2 nodes. To enable data communications with those systems / nodes, CASS incorporates several communications protocols including Variable Message Format (VMF), Link 16, Situational Awareness Data Link (SADL), Marine Tactical System (MTS), and U.S. Message Text Format (USMTF); along with emerging waveform technologies.

Funding supports Dismount, ATM, and ASOC software to address: interfaces with new dismount requirements, evolution of existing Tactical Assault Kit (TAK) software which provides a framework for the dismounted software, ASOC modernization (interoperability and hardware/ software interfaces), changes to Army fires support systems, changes to AOC Theater Battle Management Core Systems , updates for fielded versions, new joint Digitally-Aided CAS (DACAS) standards, technical support to operators employing the software, and system prototyping for required future ASOC/TOC/Mounted system capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver CASS weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 $0.000M was expended for civilian pay expenses in this program element, and in FY21 $0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force					Date: May 2021
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*		**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*			
B. Program Change Summary ($ in Millions)	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**
Previous President's Budget	4.117	12.906	13.976	0.000	13.976
Current President's Budget	4.019	12.882	13.081	0.000	13.081
Total Adjustments	-0.098	-0.024	-0.895	0.000	-0.895
• Congressional General Reductions	0.000	-0.024			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.098	0.000			
• Other Adjustments	0.000	0.000	-0.895	0.000	-0.895

Exhibit R-2A, RDT&E Project Justification: PB 2022 Air Force											Date: May 2021	
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207444F / *Tactical Air Control Party-Mod*				Project (Number/Name) 676013 / *Equipment Modernizaton*			
COST ($ in Millions)	**Prior Years**	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**	**FY 2023**	**FY 2024**	**FY 2025**	**FY 2026**	**Cost To Complete**	**Total Cost**
676013: *Equipment Modernizaton*	-	4.019	12.882	13.081	0.000	13.081	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Tactical Air Control Party (TACP) are Air Force units manned by Special Warfare airmen (previously known as Battlefield Airmen) who advise Army Ground Commanders and plan, request and control air power in support of army ground maneuver operations. These capabilities are employed at all echelons of Army organizations by: Air Support Operation Center (ASOC) TACPs, Division TACPs, Brigade TACPs, Battalion TACPs, and dismounted (on foot) Joint Terminal Attack Controllers (JTAC) deployed with Army companies or scout teams on the front lines. TACPs coordinate, request, and control Strike aircraft, Joint fires, airlift support and intelligence, surveillance, and reconnaissance (ISR) support for Army combat operations, and they provide ground communications support for federal disaster response and Homeland Defense operations. TACPs deploy with their aligned Army units and operate in a variety of environments including fixed operations from ASOCs and Tactical Operations Centers (TOC), mobile operations in tactical vehicles, and dismounted operations with Army infantry patrols.

The purpose of the Tactical Air Control Party - Modernization (TACP-M) program is to provide TACPs voice, data and video communications, targeting and battlefield awareness/management capabilities across all domains. Improved targeting and data communications capabilities provide more accurate target coordinates, reduce Close Air Support (CAS) response times, and reduce the probability of fratricide or collateral damage using networked data communication.

The TACP-M program support includes addressing frequent TACP combat deployments that sometimes lead users to change equipment procurement priorities to support urgent operational needs and respond to evolving threat environments. The TACP-M program office works with the Special Warfare (SW) program office to procure dismounted equipment and software. This teaming arrangement helps standardize Special Warfare airmen equipment, improve efficiency of acquisition efforts, and often reduces unit costs by increasing procurement quantities.

The TACP-M program provides and modernizes capabilities in the following major areas: (1) ASOC/TOC systems (used in fixed and mobile operations centers, (2) Dismounted Systems (used by JTACS during dismounted infantry operations) and Vehicle Mounted Systems (used in TACP tactical vehicles) and semi-mobile operations, and (3) Close Air Support System (CASS) software.

ASOC provides execution management and integration with fires systems, utilizes Air Operations Center (AOC) (i.e., the Air Tasking Order (ATO)) inputs and archives data, provides a visual depiction and will assist in the management of the forward battlespace/area of contention in coordination with DOD, non-governmental, and international partners. It additionally provides TACP planning documents and data management/server capability for integrating ISR management and video feeds, managing Air Tasking real time, and receiving Battle Damage Assessment (BDA) inputs. The ASOC will provide Joint All Domain Command and Control (JADC2) capabilities that will be leader-centric, network enabled, and ready to operate in complex and degraded information environments; to include the ability to support/ execute air taskings should the AOC required assistance during periods of degraded operations.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

Dismounted and ASOC/TOC/Mounted (ATM) software meets the technical needs of implementing TACP C2 capabilities in operational environments. Software supports a wide variety of radio systems and other emerging systems that are expected to be employed by TACPs in the future. Future upgrades are necessary to maintain interoperability with strike aircraft, joint fire support systems, and emerging data networking waveforms. Software upgrades provide a modular architecture for digital communications, messaging, data handling, hardware management, and targeting, and battle space awareness capabilities. The key characteristic of the software will be the agile development of Open System, Modular architectures that will enable rapid integration with new end user devices (such as laser range finders, radios, Full Motion Video, targeting and laptops/hand held computing devices, tactical gateway's and rapid development, testing and fielding of new mission capability modules to meet immediate and future requirements. The ASOC will be aligned and integrated with the Advanced Battle Management System to ensure synergy of effort.

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Funding supports Dismount, ATM, and ASOC software to address: interfaces with new dismount requirements, evolution of existing Tactical Assault Kit (TAK) software which provides a framework for the dismounted software, ASOC modernization (interoperability and hardware/ software interfaces), changes to Army fires support systems, changes to AOC Theater Battle Management Core Systems (TBMCS), updates for fielded versions, new joint Digitally-Aided CAS (DACAS) standards, technical support to operators employing the software, and system prototyping for required future ASOC/TOC/Mounted system capabilities

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program funds would be in addition to civilian pay expenses budgeted in program element 0605831F. In FY19 (0) and FY20 (0) was expended for civilian pay expenses in this program element

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Close Air Support System (CASS)	4.019	12.882	13.081
Description: Title: TACP-M Software System (TSS)			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Description: The TACP-M Software program will modernize software for Communications, Command and Control (C3) processing systems for multiple TACP mission areas, i.e., ASOC/TOC operations, Mounted operations, and Dismounted operations ***FY 2021 Plans:*** This includes, but is not limited to: -Continued to support development of Special Warfare Assault Kit (SWAK) Dismount Special Warfare software. -Established TACP common software architecture for further development to meet other battlefield airman operational needs. -Conducted investigations to provide additional feature (capabilities) for the software. -Integrated WARHAWK (previously named CASS 2.0) with ASOC Mod software acquisition. -Continued to integrate, and test CASS data communications interfaces with C2 Nodes, CAS aircraft, Army Tactical Network (ATN), Soldier Radios Waveform (SRW) networks, TBMCS, and Mobile User Objective System (MUOS) Satellite Communications (SATCOM) networks to enhance interoperability between TACPs, and other joint warfighters. ***FY 2022 Plans:*** -Will continue to support development of Special Warfare Assault Kit (SWAK) Dismount Special Warfare software. -Will continue TACP common software architecture for further development to meet other battlefield Special Warfare airman operational needs. -Will conduct investigations to provide additional feature (capabilities) for the software. -Will integrate WARHAWK (previously named CASS 2.0) with ASOC Mod software acquisition. -Will continue to integrate, and test CASS data communications interfaces with C2 Nodes, CAS aircraft, Army Tactical Network (ATN), Soldier Radios Waveform (SRW) networks, TBMCS, and Mobile User Objective System (MUOS) Satellite Communications (SATCOM) networks to enhance interoperability between TACPs, and other joint warfighters. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase in budget from FY21 to FY22 is due to increased mission capabilities required for ASOC and Mobile systems.			
Accomplishments/Planned Programs Subtotals	4.019	12.882	13.081

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• OPAF 03 Line item 837100: *Tactical C-E Equipment*	35.967	50.093	52.200	-	52.200	-	-	-	-	-	-

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

D. Acquisition Strategy

TACP-M is executing agile development for the TACP-M CASS software. CASS, Dismount, and ATM software strategy continues the development and deployment process through risk reduction efforts. CASS WARHAWK software strategy is to build off pre-existing software and lessons learned in through Risk Reduction using a separate contract (awarded 1QFY21) for the full agile development of WARHAWK to meet warfighter's needs. WARHAWK will employ a Modular Open Systems Architecture (MOSA) to allow flexible development that will compliment an Agile software effort.

The ASOC modernization effort will research and investigate commercial and government available hardware and software with minimum development to support requirements by utilizing direct user feedback from other TACP-M programs, TACP innovation sites and the UES to quickly leverage capability into the existing weapons platform. The results of these efforts form the basis of the ASOC-Mod to execute prototype and develop efforts to support current requirements.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
WARHAWK CASS System Software Dev. Dismounted	Various	GDIT : WP, OH	-	1.700	Mar 2020	2.400	Jun 2021	2.443	Jun 2022	-		2.443	-	-	-
Warhawk CASS System Software Dev. Mounted	TBD	TBD : TBD	-	-		5.997	Mar 2021	5.880	Mar 2022	-		5.880	-	-	-
ASOC MOD	Various	TBD : Pope AFB, NC	-	-		1.132	Jan 2021	1.012	Jan 2022	-		1.012	-	-	-
Warhawk CASS Risk Reduction Phase 2	SS/CPAF	GDIT : WP, OH	-	0.750	Mar 2020	-		-		-		-	-	-	-
WARHAWK CASS NSWC Crane (Naval Surface Warfare Center)	MIPR	NSWC Crane : Crane, IN	-	0.988	Jan 2020	0.633	Jan 2021	1.229	Jan 2022	-		1.229	-	-	-
		Subtotal	-	3.438		10.162		10.564		-		10.564	-	-	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Agency Support	MIPR	Various : Multiple, FL	-	0.581	Apr 2020	0.942	Apr 2021	0.736	Apr 2022	-		0.736	-	-	-
		Subtotal	-	0.581		0.942		0.736		-		0.736	-	-	N/A

Remarks

Development, operational and interoperability testing

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	C/CPAF	Not specified. : TBD	-	-		1.778	Jul 2021	1.781	Jul 2022	-		1.781	-	-	-
		Subtotal	-	-		1.778		1.781		-		1.781	-	-	N/A

Remarks

PMA funds MITRE, ETASS, PASS, SCS, all multiple contractors.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force			Date: May 2021
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207444F / *Tactical Air Control Party-Mod*	Project (Number/Name) 676013 / *Equipment Modernizaton*	

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	4.019		12.882		13.081		-		13.081	-	-	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

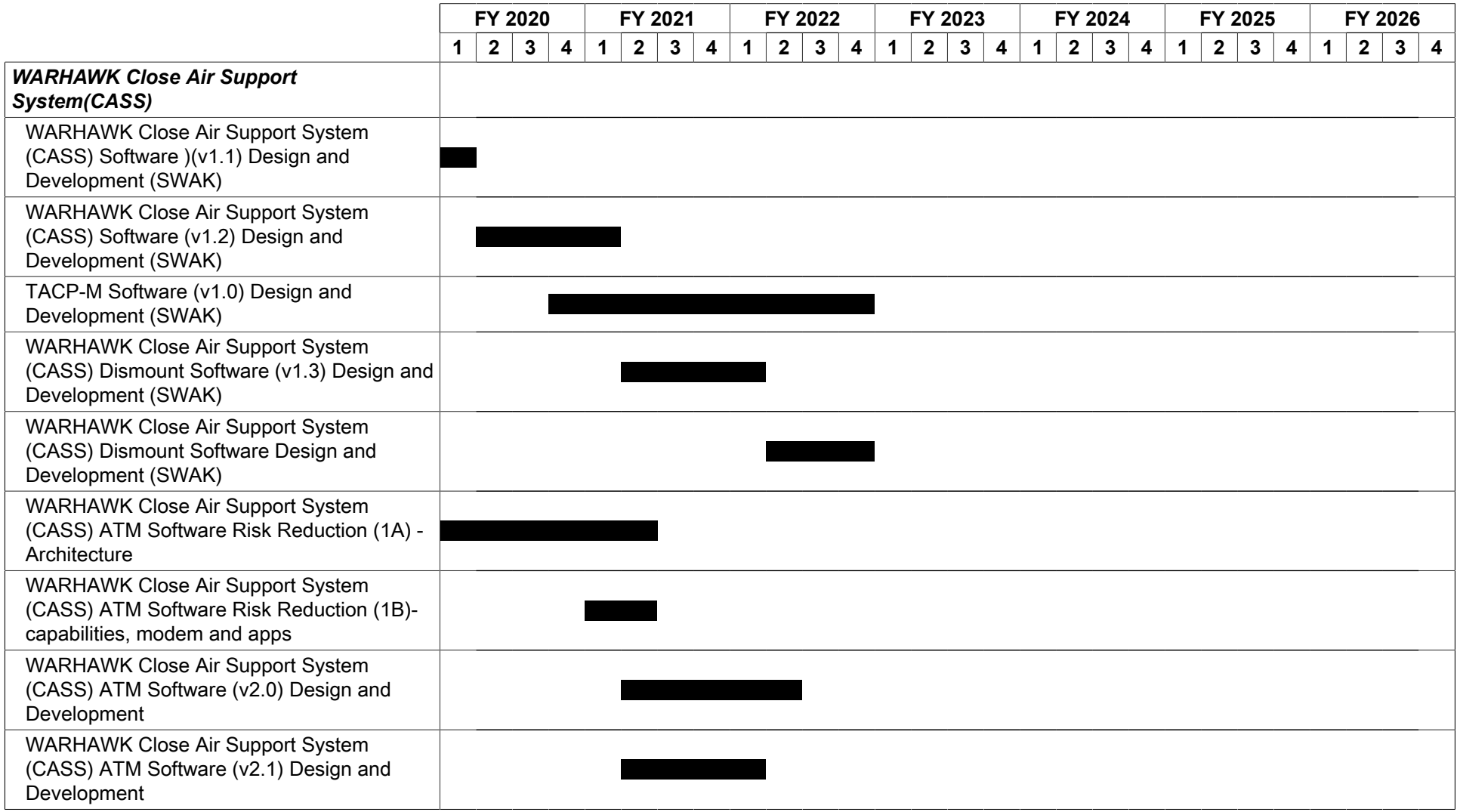

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

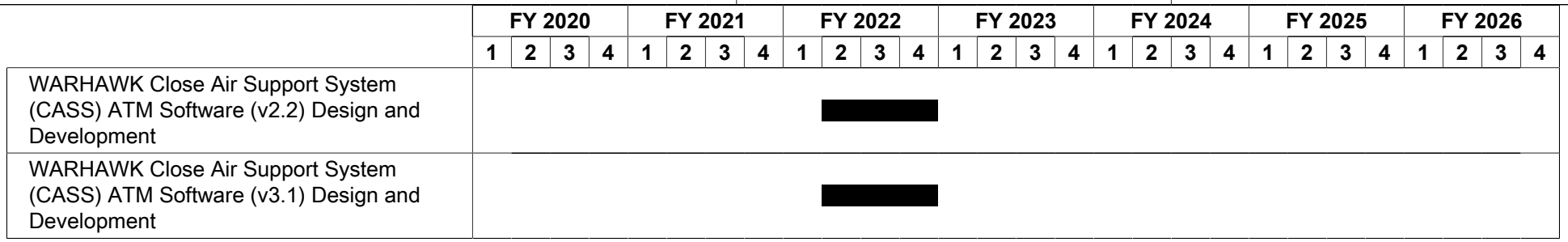

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0207444F / *Tactical Air Control Party-Mod*	**Project (Number/Name)** 676013 / *Equipment Modernizaton*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
WARHAWK Close Air Support System(CASS)				
WARHAWK Close Air Support System (CASS) Software)(v1.1) Design and Development (SWAK)	1	2020	1	2020
WARHAWK Close Air Support System (CASS) Software (v1.2) Design and Development (SWAK)	2	2020	1	2021
TACP-M Software (v1.0) Design and Development (SWAK)	4	2020	4	2022
WARHAWK Close Air Support System (CASS) Dismount Software (v1.3) Design and Development (SWAK)	2	2021	1	2022
WARHAWK Close Air Support System (CASS) Dismount Software Design and Development (SWAK)	2	2022	4	2022
WARHAWK Close Air Support System (CASS) ATM Software Risk Reduction (1A) - Architecture	1	2020	2	2021
WARHAWK Close Air Support System (CASS) ATM Software Risk Reduction (1B)- capabilities, modem and apps	1	2021	2	2021
WARHAWK Close Air Support System (CASS) ATM Software (v2.0) Design and Development	2	2021	2	2022
WARHAWK Close Air Support System (CASS) ATM Software (v2.1) Design and Development	2	2021	1	2022
WARHAWK Close Air Support System (CASS) ATM Software (v2.2) Design and Development	2	2022	4	2022
WARHAWK Close Air Support System (CASS) ATM Software (v3.1) Design and Development	2	2022	4	2022

Note

IOC & FOC dates are based on Objective and not Threshold dates.